

7. DEVELOPMENT INITIATIVES IN AQUACULTURE

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Development and growth in fisheries are sustainable only with adequate support for training, extension, skilled human resources and market infrastructure, which lay the foundation for improved productivity and competitiveness. Support services have traditionally focused on capture fisheries but have recently shifted toward aquaculture. Fisheries development depends on the policy and institutional environment comprising laws, administrative directives, institutions, services, infrastructure support and incentives. Here in this chapter, supports available from major different institutes and agencies for taking up aquaculture activities are summarised for the benefit of farmers and entrepreneurs and government officials.

Schemes of NFDB

1. Coastal Aquaculture

Name of the Activity/Scheme	Unit cost	Pattern of Assistance
Construction of ponds for brackish water fin fish culture	Rs. 2.40 lakhs / ha.	25% cost subject to a maximum of Rs. 0.60 lakhs/ha as subsidy.
Additional infrastructure for brackish water finfish culture for modification of existing farms.	Rs. 2.00 lakhs / ha.	25% cost subject to a maximum of Rs. 0.50 lakhs/ha as subsidy.
Input assistance for brackish water fin fish culture.	Rs. 2.00 lakhs / ha. (Subject to the approval of CIBA based on the production levels).	<ul style="list-style-type: none"> • one time back ended subsidy of 25% to all farmers to a maximum of 0.75 lakhs/ha and • Back ended subsidy of 30% on the capital cost to SCs/STs not exceeding Rs. 3.0 lakhs/ha.
Input assistance for cage culture of brackish water fin fish.	Rs. 7.00 lakhs /ha. (Subject to the approval of CIBA / RGCA based on the production levels).	<ul style="list-style-type: none"> • Back ended subsidy of 25% on the working capital for first crop with a ceiling of Rs 1.75 lakhs/ha • Back ended subsidy of 30% on the working capital for first crop to SCs/STs with a ceiling of Rs 2.10 lakhs/ha.

2. Mariculture

Name of the Activity/Scheme	➤ Unit cost	➤ Pattern of Assistance
Setting up of open sea cage culture by	Rs. 2.00 crores per unit.	20% equity participation on investment.

companies.		
Setting up of new hatcheries for brackish water fin fish seed production.	Rs. 72 lakhs.	40% subsidy on the unit cost exceeding Rs. 28.80 lakhs / unit.
Diversification by shrimp hatcheries to brackishwater fin fish seed production.	Rs. 70.00 lakhs.	20% subsidy on the unit cost not exceeding Rs. 28.0 lakhs / unit.
Assistance for setting up of open sea cage culture units.	Capital cost of Rs. 6.00 lakhs /cage and working capital of Rs. 4.15 lakhs/cage of 12 meter dia.	40% back ended subsidy on capital and working capital of fishermen groups and entrepreneurs.
Assistance for setting up of open sea cage culture units by fishermen societies and SHGs.	Capital cost of Rs. 1.25 lakhs / cage of 6 meter dia.	40% back ended subsidy on capital cost to fishermen societies and groups.
Training on marine ornamental fish culture.	100% grant.	100% financial assistance to Government institutions as per the guidelines of NFDB.
Assistance to Mussel/Oyster/clam culture / other commercial shellfishes.	Rs. 20,000 / unit of 50 m ² .	50% subsidy on the unit cost.
Seaweed culture.	Rs. 5,000 / unit.	50% subsidy on the unit cost to women SHG's and entrepreneurs.

3. Construction of new fish/prawn ponds and tanks

Name of the Activity/Scheme	Unit cost	Pattern of Assistance
Existing species Entrepreneurs / Farmers.	Rs. 3.0 lakhs /ha. for plane areas.	20% subsidy with a ceiling of Rs. 0.60 lakhs/ha. and 25 % subsidy to SC and ST's with a ceiling of Rs. 0.75 lakhs/ha.
	Rs. 4.0 lakhs/ha. in hill states / Districts and NE region.	20% subsidy with a ceiling of Rs. 0.80 lakhs/ha. and 25 % subsidy to SC and ST's with a ceiling of Rs. 1.00 lakhs/ha.

4. Renovation of existing ponds

Name of the Activity/Scheme	Unit cost	Pattern of Assistance
Renovation of fish/prawn	Rs. 0.75 lakhs /ha.	20% subsidy for all farmers /

ponds and tanks. Entrepreneurs / Farmers.		entrepreneurs with a ceiling of Rs. 0.15 lakhs/ha. and 25 % subsidy to SC and
New Species <i>Pangasius sutchi</i> .	Rs. 0.75 lakhs/ha.	ST's with a ceiling of Rs. 0.1875 lakhs/ha.

5. Cost of inputs

Name of the Activity/Scheme	Unit cost	Pattern of Assistance
For prawn farming entrepreneurs/farmers	Rs. 1.80 lakhs /ha.	20% subsidy with a ceiling of Rs. 0.36 lakhs/ha. for all the farmers.
For fish / prawn farming in paddy fields. Entrepreneurs/farmers	Rs. 0.50 lakhs /ha.	20% subsidy for all Entrepreneurs/ Farmers.
New Species <i>Pangasius sutchi</i> .	Rs. 5.0 lakhs /ha.	40% of subsidy of the unit cost for initial period of 2 years and thereafter 20% for all farmers and 25% for SC and ST's.

6. Establishment of freshwater prawn seed hatchery

Name of the Activity/Scheme	Unit cost	Pattern of Assistance
Capacity: 25 million PL / unit /Year State Governments.	Rs. 30.00 lakhs /unit.	90% of the unit cost as one time establishment of hatchery at state Level.
Capacity: 5-8 million PL / unit / year for entrepreneurs / farmers.	Rs. 12.00 lakhs /unit.	20% subsidy with a ceiling of Rs. 2.40 lakhs to entrepreneurs / farmers.

7. Establishment of fish seed hatchery

Name of the Activity/Scheme	Unit cost	Pattern of Assistance
Establishment of fish seed hatcheries with or without nurseries (7-8 million – fry capacity / year.	Rs. 12.00 lakhs /unit for plain areas.	20% back ended bank linked subsidy to entrepreneurs / farmer with a ceiling of Rs. 2.4 lakhs / unit. 90 % of the unit cost as one time grant to the state Fisheries department, Quasi Government organisations and research Institutes.

	Rs. 16.00 lakhs / Unit in hill state / Districts of NE region.	20% back ended bank linked subsidy to entrepreneurs / farmers with a ceiling of Rs. 3.2 lakhs / unit. 90 % of the unit cost as one time grant to the state Fisheries department, Quasi Government organisations and research Institutes.
New species (Cultivable species other than Major carps). Entrepreneurs / farmers.	Unit cost has to be approved by CIFA.	20% back ended subsidy on capital investments.

8. Renovation of fish seed farms

Name of the Activity/Scheme	Unit cost	Pattern of Assistance
Government fish seed rearing farms (aged about 5 years and above).	Rs. 2.00 lakhs /ha rearing area.	90% one time grant for state Fisheries department only.
Renovation / re-modelling / upgradation / reconstruction of hatchery / nurseries in government sectors (aged about 5 years and above) for existing and new species. Capacity: 7-8 million fry / year.	Rs. 4.00 lakhs/hatchery of 7-8 million fry production / year.	90% one time grant for state Fisheries department only.

9. Fish seed rearing units

Name of the Activity/Scheme	Unit cost	Pattern of Assistance
Construction of fish seed rearing units for fry rearing to large fingerlings of 80-100mm size.	Rs. 2.00 lakhs /ha for plain areas area. Rs. 4.00 lakhs / ha. in hill states / Districts of NE region.	20% subsidy for all farmers / entrepreneurs and 25% subsidy to SC and STs. 20% subsidy for all farmers / entrepreneurs and 25% subsidy to SC and STs. 90% one time grant to government / quasi government organizations.

10. Brood stock development

Name of the Activity/Scheme	Unit cost	Pattern of Assistance
Brood stock development programme including ornamental fish. For Government agencies / Government institutions only.	Rs. 25.00 lakhs including a farm transport arrangements for dissemination. Available for the state governments.	Full grants to Government agencies / Government institutions only.

11. Fresh water Ornamental Fisheries

Name of the Activity/Scheme	Unit cost	Pattern of Assistance
Backyard hatchery	Rs. 1.50 lakhs	50% unit cost as subsidy to entrepreneurs, members of women SHGs / Fisherwomen Cooperative Societies.
Medium scale unit	Rs. 4.0 lakhs	50% unit cost as subsidy to beneficiaries.
Integrated ornamental Fishery units	Rs. 15.00 lakhs	90% subsidy to the Government Agencies / Government Institutions and 50% unit cost as subsidy to entrepreneur.
setting up of Aquarium fabrication units SHGs/Enterpreneurs	Rs. 1.00 lakh	50% unit cost as subsidy to members of women SHGs / Fisherwomen Cooperative Societies and 25% unit cost as subsidy to individual persons.

Schemes of MPEDA

S.No.	Name of the scheme	Objective	Quantum of subsidy
1.	Subsidy for new farm development.	For development of new shrimp/scampi farms.	25% of the capital cost, subject to a maximum of Rs.50, 000/- per ha. WSA and restricted to Rs. 2.5 lakh per beneficiary.
2.	Subsidy for small-scale hatcheries.	For setting up of shrimp/scampi hatchery with a minimum production capacity of 10 million seeds per annum.	25% of the capital cost subject to a maximum of Rs. 3.00 lakh for private hatcheries
3.	Subsidy for medium-scale hatcheries	For setting up of shrimp/scampi hatchery with a minimum production capacity of 30 million seeds per annum	50% of the capital cost, subject to a maximum of Rs.20.00 lakh per beneficiary / hatchery limited to 6 hatcheries only
4.	Subsidy for setting up of PCR labs in hatcheries/Pvt. Lab	To establish PCR labs in Hatcheries/Pvt. Lab	50% of capital cost, subject to a maximum of Rs. 5.00 lakh per beneficiary /hatchery 50% of capital cost, subject to a maximum of Rs. 5.00 lakh per beneficiary /hatchery.
5.	Subsidy for effluent treatment system (ETS) in Shrimp Farms	To set up effluent treatment systems attached to shrimp farms	25% of the capital cost, subject to Rs. 1.50 lakh for shrimp farms with a minimum water area of 5.00 ha. and up to Rs.6.00 lakh per beneficiary.

6.	Registration of Aquaculture Societies	For adoption of BMPs and Code of Practices for sustainable shrimp farming for sector wide management of aquaculture farms	50% of the estimated cost subject to a maximum of Rs. 5.00 lakh for setting up of office, ware house/auction hall, common facility etc., Laboratory facilities, Hiring technicians, training farmers / technical personnel and methodology for promoting environmentally sound farming. Being operated in a phased manner.
7.	Providing of financial assistance for farmers for undertaking organic farming of shrimp and scampi	<p>To promote the development of eco-friendly, socially responsible organic farming and to build up a strong economical production center.</p> <p>To implement the organic production of shrimp/scampi seed, feed and to process the organic produce.</p> <p>To develop new export opportunities with special focus on global premium seafood markets.</p>	Extending financial assistance @ Rs. 50,000/- per ha of WSA or 50% of the total cost of certification, feed cost and seed cost (including transportation charges) whichever is less to the farmers for undertaking organic farming in new farms. Ceiling limit for individual farmers in maximum of 6 ha and above or Rs. 3 lakhs whichever is lowest and for padasekharams/ groups/cluster/societies the ceiling is 30 ha and above or Rs. 15 lakhs.
8.	Scheme for providing financial assistance for establishment of Ornamental Fish Breeding Units.	Generate export oriented employment in rural and urban households through mass production ornamental fishes.	50% of the cost of eligible expenditure subject to a maximum of Rs. 75,000 for Grade I unit, Rs. 2 lakh for Grade II unit and Rs 7.5 lakh for Grade III unit.
9.	Scheme for providing financial assistance for establishment of Ornamental Fish Marketing Societies (OFMS).	To provide marketing infrastructure and to reduce intermediaries for ornamental fish breeders.	To provide marketing infrastructure and to reduce intermediaries for ornamental fish breeders.

10.	Developmental assistance for Export of Ornamental/ Aquarium fishes.	To enable Indian Ornamental fishes to penetrate the world market.	10% of f.o.b. value of export effected to the world countries except Singapore and other South East Asian Countries (no ceiling).
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Schemes of RASHTRIYA KRISHI VIKASA YOJANE (RKVY)

(Schemes implemented through State Fisheries Department)

1. MUSSEL CULTURE:

S.No.	Name of the scheme	Unit cost	Quantum of subsidy
1.	Proposed to establish 50 units for culture of mussels and an allocation of 20.00 lakhs made.	Rs. 20,000 per unit	Each beneficiary will be provided 100% subsidy amounting to Rs.40,000. Rs.1.50 lakh provision has been made to train 50 beneficiaries to take up mussel culture.

2. SEA WEED CULTURE

S.No.	Name of the scheme	Unit cost	Quantum of subsidy
1.	Proposed to establish 50 units for culture of sea weeds (each unit with 4 rafts). An allocation of Rs.10.00 lakhs is made for this programme.	Rs. 5,000 per unit	Each beneficiary will be provided 100% subsidy amounting to Rs.20,000 Rs. 1.50 lakh provision has been made to provide training to 50 beneficiaries on sea weed culture.

3. MUD CRAB FARMING

S.No.	Name of the scheme	Unit cost	Quantum of subsidy
1.	Proposed to provide assistance to take up mud crab farming. The total allocation made is Rs.10.00 lakh.	Rs. 2.50 lakhs / ha.	Each beneficiary will be provided 100% subsidy. It is proposed to encourage 4 such ventures (0.4 hectare). Rs.1.0 lakh provision has been made to train 20 beneficiaries under this programme.

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